

# Panasonic®

## Video Cassette Recorder Operating Instructions (Basic Operations)

Omnivision VHS

For advanced operations, see the separate  
“Advanced Operations” instruction book.

### Models No. PV-V4523S



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*As an ENERGY STAR® Partner,  
Matsushita Electric Corporation of America  
has determined that this product or product  
model meets the ENERGY STAR®  
guidelines for energy efficiency.*



Please read these instructions carefully before attempting to connect,  
operate or adjust this product. Please save this manual.  
Spanish Quick Use Guide is included.  
(Guía para rápida consulta en español está incluida.)

LSQT0631A

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : [consumerproducts@panasonic.com](mailto:consumerproducts@panasonic.com)

# Important Safeguards and Precautions

FOR YOUR SAFETY, READ AND RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS. HEED ALL WARNINGS IN THE MANUAL AND ON THE UNIT

## INSTALLATION

### 1 POWER SOURCE CAUTION

Operate only from a power source indicated on the unit or in this manual. If necessary, have your Electric Utility Service Company or Video Products Dealer verify the power source in your home.

### 2 POLARIZED OR GROUNDING PLUG

As a safety feature, this Video product comes with either a polarized power cord plug (one blade is wider than the other), or a three-wire grounding type plug.

#### POLARIZED PLUG CAUTION:

This plug will only fit into an outlet one way. If you cannot fully insert the plug, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not defeat the safety feature by tampering with the plug.

#### GROUNDING PLUG CAUTION:

This plug will only fit into a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not defeat the safety feature by tampering with the plug.

### 3 POWER CORD

Make sure power cords are routed so that they are not likely to have anything rest on them, roll over them, or be in the way of walking traffic. If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected. Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified service technician. Overloaded outlets and extension cords are fire hazards and should be avoided.

### 4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes. For protection, follow these rules:

- Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.
- Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

### 5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place the unit over or near any kind of heater or radiator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may condense in the unit and on the tape.

### 6 TO AVOID PERSONAL INJURY

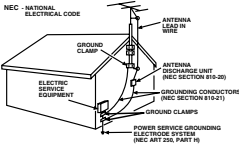
- Do not place unsecured equipment on a sloping surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.



## OUTDOOR ANTENNA INSTALLATION

### 1 SAFE ANTENNA AND CABLE CONNECTION

If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges. Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



### 2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

An outside antenna system should be located well away from power lines, electric light or power circuits and where it will never come into contact with these power sources if it should happen to fall. When installing an outside antenna, extreme care should be taken to avoid touching power lines, circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should be left to a professional.

## USING THE VIDEO UNIT

If the unit has been in storage or moved to a new location, refer first to the INSTALLATION section of these safeguards.

### 1 KEEP THIS VIDEO UNIT AWAY FROM WATER OR MOISTURE OF ANY KIND.

2 IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug the unit and have it inspected by a qualified service technician before use.

### 3 DURING AN ELECTRICAL STORM

During a lightning storm, whether indoors or outdoors, or before leaving the unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

### 4 WHEN THE UNIT IS PLUGGED IN

- Never expose the unit to rain or water. DO NOT OPERATE if liquid has been spilled into the unit. Immediately unplug the unit, and have it inspected by a service technician. Fire and shock hazards can result from electrical shorts caused by liquid contact inside.
- Never drop or push any object through openings in the unit. Some internal parts carry hazardous voltages and contact can cause electric shock or fire hazard.
- Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all magnets away from electronic equipment.

### 5 USING ACCESSORIES

Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.

### 6 CLEANING THE UNIT

Unplug the unit. Then, use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into the unit and cause electrical shock. Any substance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

## SERVICE

### 1 DO NOT SERVICE THIS PRODUCT YOURSELF

If, after carefully following the detailed operating instructions this Video product does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug the unit and contact a qualified service technician.

### 2 IF REPLACEMENT PARTS ARE REQUIRED

Make sure the service technician uses only parts specified by the manufacturer, or those having the same safety characteristics as the original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

### 3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK

After any service or repairs to the unit, request the service technician to conduct a thorough safety check as described in the manufacturer's service literature to ensure that the video unit is in safe operating condition.

This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

# Before Using

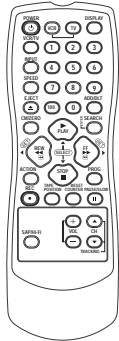
## Congratulations

on your new purchase! With proper use, this dependable product will provide years of enjoyment. Please fill in the information below. (Serial number is on tag on back of VCR.)

- Date of Purchase \_\_\_\_\_
- Dealer Purchased From \_\_\_\_\_
- Dealer Address \_\_\_\_\_
- Dealer Phone No. \_\_\_\_\_
- Model No. **PV-V4523S**
- Serial No. \_\_\_\_\_

## Accessories

- ☐ Remote Control LSSQ0389



- ☐ Batteries 2 "AA"

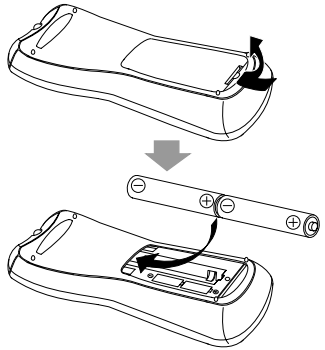


- ☐ RF Coaxial Cable LSJA0372



To order accessories, call toll free 1-800-332-5368.

## Loading the Batteries

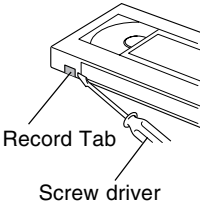


- ☐ Battery replacement caution

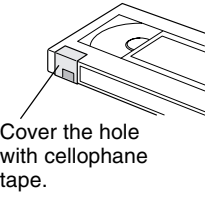
- Do not mix old and new batteries.
- Do not mix alkaline with manganese batteries.

## Prevent Accidental Tape Erasure

Break off the tab to prevent recording.



To record again



## Record/Playback Time

Only use tapes with the **VHS** mark in this unit.

Tape Speed Setting	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

## Head Cleaning

Old or damaged tapes may clog heads.

### Video Head Clog Sensor

Screen-right appears during play if clogging is detected. To remove screen, press PLAY.

VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL  
END :PLAY

- Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.

## Cleaning the VCR

Use soft, dry cloth or dusting attachment of a vacuum to remove dust from all cabinet vent holes. You may moisten cloth with nonabrasive, antistatic cleaner/ polisher.

### Caution:

Alcohol and various solvents could damage finish.

## Specifications

Power Source: 120 V AC, 60 Hz

Power Consumption: Power On

Approx. 23 W

Power Off

Approx. 3.0 W

Video Signal: EIA Standard NTSC color

Video Recording System: 4 rotary heads helical scanning system

Audio Track: 1 track (Normal)  
2 channel (Hi-Fi Audio Sound)

Tuner:

Broadcast Channels: VHF 2 ~ 13, UHF 14 ~ 69

CABLE Channels: Midband A ~ I (14 ~ 22)  
Superband J ~ W (23 ~ 36)  
Hyperband AA ~ EEE (37 ~ 64)  
Lowband A-5 ~ A-1 (95 ~ 99)  
Special CABLE channel 5A (01)  
Ultraband 65 ~ 94, 100 ~ 125

Operating Temperature: 5 °C ~ 40 °C (41 °F ~ 104 °F)

Operating Humidity: 10 % ~ 75 %

Weight: 2.5 kg (5.5 lbs).

Dimensions: 360 (W) x 93 (H) x 242 (D) mm  
14-3/16" (W) x 3-11/16" (H) x 9-9/16" (D) inch

Note: Designs and specifications are subject to change without notice.

## Features for a Quality Picture

### Digital Auto Picture

Automatically controls the video output signal for less noise depending on the tape condition.

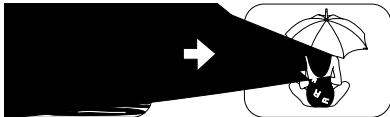
### Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

### Manual Tracking Control (to reduce picture noise)

Use during Playback and Slow Motion mode to reduce picture noise.

Press CH (TRACKING) ▲/▼ on the remote control or on the VCR until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.



### V-Lock Control (to reduce picture jitter)

In Still mode, CH (TRACKING) ▲/▼ operate as a V-Lock control.

# Safety Precautions

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert. Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.



FCC Warning: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

# Connections / Initial Setup (Ready to Play)

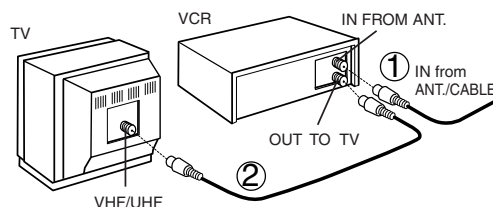
Please make all cable or antenna connections before plugging into the AC outlet.

Plugging the VCR Power Cord into an AC wall outlet starts auto channel and clock set.

## Connecting

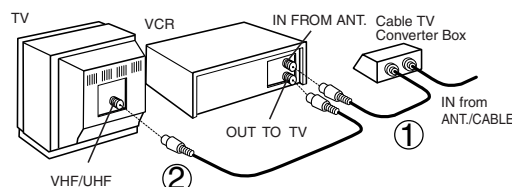
### For ANT./Cable → VCR → TV

- 1 Connect cable from Antenna/Cable to VCR's IN FROM ANT. jack.
- 2 Connect VCR's OUT TO TV jack to TV's ANT. IN jack with included RF Cable accessory.



### For DSS/Cable Box → VCR → TV

- 1 Connect your cable box's OUT jack to the VCR's IN FROM ANT. jack with an RF cable.
- 2 Connect VCR's OUT TO TV jack to TV's ANT. IN jack with included RF Cable accessory.



#### WARNING

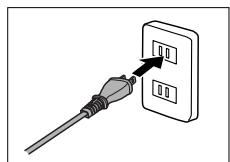
Over tightening "Nut type" RF coaxial cables may damage jacks. Finger tighten only.

## Initial Setup (Ready to Play)

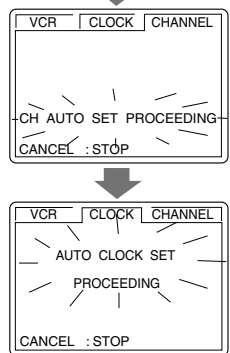
- 1 Turn TV on and tune to channel 3.

- 2 Plug VCR Power Cord into AC wall outlet. VCR comes on and auto channel and clock set starts.

- If screen below does not appear, check VCR - TV connection and, if TV is tuned to channel 3, try switching it to channel 4.
- To change VCR's output channel, please refer to "VCR's Output Channel" in Advanced Operations book (p. 12).



Plugging the AC Power Plug into an AC outlet

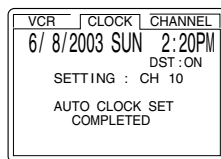


If you use a cable box, turn it on and set it to the Public Broadcasting Station (PBS) channel in your time zone. If you use a DSS receiver, it must be turned off.

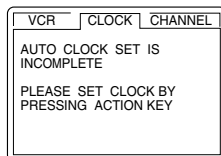
#### Notes

- Function buttons are inoperative during Initial Setup.
- To remove a cassette during Auto Set, press EJECT on the remote or STOP twice on the VCR. In this case, settings must be made manually. (See p. 12 of Advanced Operations book.)
- Depending on conditions, Auto Clock Set may take longer than 30 minutes. If so, press STOP to stop setup and perform settings manually. (See p. 12 of Advanced Operations book.)

- 3 Settings are made automatically. When setup is done, this screen appears.



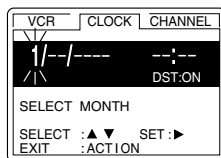
If "AUTO CLOCK SET IS INCOMPLETE" appears, manually set clock. See below.



## Manual Clock Set

If Auto Clock Set was incomplete.

- 1 Press ACTION\* on remote to display CLOCK menu.



- 2 Press ▲ ▼ to select the month and ► to set. In the same manner, select and set the date, year, time, and DST (Daylight Saving Time).



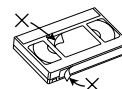
- 3 Press ACTION to start clock and exit.

# Playback / Record on a Tape

## Playback a Tape

- 1 Insert a tape.

- Loose or peeling labels may cause tape jam.
- VCR power comes on. "VCR" lights on Multi Function Display. If Auto VCR/TV (see p. 10 of Advanced Operations book) is set to "OFF," press VCR/TV until "VCR" lights on the Multi Function Display.



- 2 Press PLAY to play tape.

- If tape has no rec. tab (p. 3), auto play begins.

### Special Features During Play

- Forward/Reverse Scene Search

→ Press FF or REW.

→ Press PLAY to release.

After search has begun, each additional press of FF or REW changes speed as shown below.

[SLP] : Approx. 21X ↔ Approx. 9X

[LP] : Approx. 9X ↔ Approx. 7X

[SP] : Approx. 7X ↔ Approx. 3X

If at 21X, 9X, or 7X speed the picture is interrupted, change speed to 9X, 7X, or 3X.

#### Notes

- Picture interruption may occur with some TVs.
- FF and REW search speed may vary depending on current tape position.

- Still (Freeze) Picture

→ Press PAUSE/SLOW.

→ Press PLAY to release.

- Frame by Frame Picture

→ Press PAUSE/SLOW in Still mode.

→ Press PLAY to release.

- Slow Motion Picture

→ Hold down PAUSE/SLOW in Still mode.

→ Press PLAY to release.

#### Notes

- These features work best in SP or SLP mode.
- The sound will be muted.
- To reduce picture noise, see "Manual Tracking Control" on p. 3.
- After VCR is in Still or Slow mode 3 minutes, it auto switches to Stop mode to protect the tape and the video heads.

## Record on a Tape

- 1 Insert a tape with a record tab (p. 3).

- VCR power comes on. "VCR" lights on Multi Function Display. If Auto VCR/TV (see p. 10 of Advanced Operations book) is set to "OFF," press VCR/TV until "VCR" lights on the Multi Function Display.

- 2 Press CH ▲▼ or NUMBER keys to select the channel.

- For "LINE" input, see p. 9 of "Advanced Operations" book.

- If recording from a channel over 100, first press 100 key then the other 2 digits.

- 3 Press SPEED

to select record speed (p. 3).

- 4 Press REC

to start recording.

- To edit, press PAUSE/SLOW to pause, and again to resume recording.

- 5 Press STOP to stop recording.

- One Touch Recording

(recording in progress)

Press REC repeatedly to set length as follows:

30 min. → 1 hr. → 1:30 → 2:00 → 3:00

→ 4:00 → exit.

The VCR shuts off at the length set.

- Record one station, watch another Press VCR/TV

("VCR" goes out on Multi Function Display), → select channels on TV (recording continues).

- Select channels on VCR (in STOP or PAUSE mode)

Press VCR/TV

("VCR" lights up on Multi Function Display),

→ select channels on VCR.

#### Notes

- Watching one channel and recording another is not possible when using Cable Box or DSS Receiver.
- After 5 minutes in Pause mode, VCR stops to protect the tape and the video heads.

This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the **VHS** mark. Only tapes tested and inspected for use in 2, 4, 6, and 8 hour machines are recommended.

## Auto Operation Functions

- Auto Play

Insert a tape → Power comes on → Play starts if there is no record tab (see p. 3).

- Auto Rewind

Play

Fast Forward

→ Tape end → Rewind

- Play Auto Eject

(Repeat Play must be off)

Play → Tape end → Rewind → Tape ejects if there is no record tab

**\*Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.



# Timer Recording

## Timer Recording

- 1) Press **PROG\***.
- 2) Press **▼** to display program screen.
- 2
- TIMER PROG. LIST  
DT START STOP CH SPD  
13 2:00P 3:20P 02 SLP  
Today  
SELECT START DATE  
SELECT : ▲▼ SET: ►  
END : PROG

1) Set record DATE, press **▲▼** to select:  
1~31= one time,  
or DAILY= MON~ FRI,  
or WEEKLY= same time  
each week and press **►**.  
2) Set remaining items,  
press **▲▼** to select and  
press **►** to set START/ STOP times, CH (channel) or  
LINE input (p. 9 of Advanced Operations book), and  
tape speed (p. 3).

Example  
Today  
8—9.....31—1—2.....6  
7  
WEEKLY (SAT) WEEKLY (MON) WEEKLY (SUN)

SELECT▲/▼ Selection Order DAILY
- Press **PROG** to end programming.
- 3
- TIMER PROG. LIST  
DT START STOP CH SPD  
13 2:00P 3:20P 02 SLP  
Today  
SELECT START DATE  
SELECT : ▲▼ SET: ►  
END : PROG

To Enter More Programs  
Press **▲▼** to select and  
press **►** to set an unused program.  
Then repeat step 2.  
Or, press **PROG** to exit.

4 Press **POWER** off to set the timer recording. ("TIMER" lights on Multi Function Display.)
- ## Review, Replace, or Clear Program
- (Recording is not in progress)
- a 1) Press **PROG**.

2) Press **◀▶** to select LIST.

b

TIMER PROG. LIST  
DT START STOP CH SPD  
7 8:00A 12:00A 03 SP  
8 10:00P 12:00P 02 SP  
10 8:00P 9:00P 10 SP  
SU 9:00P 10:00P L1 LP  
CANCEL : ADD/DLT  
SELECT : ▲▼ SET: ►  
EXIT : PROG

Press **▲▼** to select  
desired program.
- ## C To Replace program...
- TIMER PROG. LIST  
DT START STOP CH SPD  
7 8:00A 12:00A 03 SP  
Today  
SELECT START DATE  
SELECT : ▲▼ SET: ►  
END : PROG

1) Press **►** to display.  
2) Repeat Step 2  
(above) to set new  
programs.
- or
- ## To Clear program...
- TIMER PROG. LIST  
DT START STOP CH SPD  
7 8:00A 12:00A 03 SP  
Today  
SELECT START DATE  
SELECT : ▲▼ SET: ►  
END : PROG

Press **ADD/DLT**.
- d Press **PROG** to end the programming.
- Notes

If you are using a Cable Box, VCR Timer Programming Channel (Step 2 above) must be set to the Cable Box output channel and your Cable Box must be manually set to the desired channel. The Cable Box must be left on.

If a power interruption occurs while programming the timer, the timer program(s) may be canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please re-enter the timer programs.
- ### Important notes when using DSS receiver
- When recording programs via DSS receiver, DSS receiver must be left on.

When recording programs via an antenna or cable, DSS receiver must be turned off.
- # Location of Controls
- ## Remote Control Buttons
- VCR (mode)  
(Enables VCR functions)

POWER  
(Turns VCR off/on)

VCR/TV  
(For TV or VCR mode)

INPUT  
(For LINE or channel)

SPEED  
(Changes tape speed)

EJECT  
(Ejects tape)

COMMERCIAL SKIP/  
ZERO SEARCH  
(Starts COMMERCIAL SKIP/ Zero Search)

ACTION  
(Displays menu)

RECORD  
(Records a program, etc.)

TAPE POSITION  
(Locates tape position)

COUNTER RESET  
(Resets counter to zero)

SAP/Hi-Fi  
(Selects audio mode for play  
or record)

VOLUME +/-  
(Adjusts TV volume)

TV (mode)  
(Enables TV functions)

DISPLAY  
(Displays VCR status)

NUMBER Keys  
(Selects channel directly)

ADD/DELETE  
(Adds or deletes a channel)

SEARCH/ ENTER  
(Set search system /Tunes TV channel)

PLAY (Plays a tape)/  
FAST FORWARD/SEARCH  
(Fast forwards tape/ forward visual  
search)

REWIND/SEARCH  
(Rewinds tape/ reverse visual  
search)

STOP (Stops tape)

Remote keys  
PLAY, STOP, REW, and FF  
function as **▲▼◀▶**  
operation keys when menus  
are displayed.

PROGRAM  
(Displays Timer Program screen)

PAUSE/SLOW  
(Displays still, frame by frame,  
or slow motion picture)

CHANNEL ▲ / ▼  
TRACKING/ V-LOCK  
(Selects channel/ reduces  
picture noise during Play and  
Slow mode)
- Remote Control  
**EJECT** button: Press to eject tape. EJECT is not available during recording.
- ## Front View of the VCR
- Cassette Compartment

STOP/EJECT

POWER

Video Input Connector

Audio Input Connector (L/R)

CHANNEL ▲ / ▼  
TRACKING/ V-LOCK

Remote Sensor

RECORD

REWIND/  
SEARCH

FAST  
FORWARD/  
SEARCH

Multi Function Display

PLAY
- \*Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.
- Timer Recording • Location of Controls (Remote Control Buttons, Front View of the VCR)
- 6 -
- 7 -

# Location of Controls

## Multi Function Display

**Power Indicator**  
Lights up when power is on.

**Timer Indicator**  
Lights up when the VCR is set for a Timer Recording, or when One Touch Recording (OTR) is used.  
Flashes when a Timer Recording is set, but a tape has not been inserted into the VCR.

**VCR Indicator**  
Lights up when the VCR/TV selector is set to VCR.

## Clock/ Status/ Channel/ Speed Display

Displays the current time. Briefly displays VCR status when a function button is pressed.  
Briefly displays the channel number, or "L1" or "L2" when a channel or line input is selected.  
Briefly displays the recording speed when SPEED is pressed.

**Hi-Fi Indicator**  
Lights up when Hi-Fi audio is monitored in Playback Mode.

## Rear View of the VCR

### AC Power Plug

While plugged into an AC outlet, the VCR consumes 3.0 W of electrical power in off condition.

### Audio Input Connector (L/R)

### Video Input Connector

### VHF/UHF Antenna Input Terminal

### VHF/UHF Antenna Output Terminal

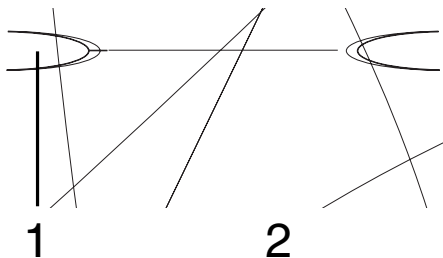
### Video Output Connector

### Audio Output Connector (L/R)

## Reset All VCR Memory Functions

Use when moving VCR to new location, or if a mistake was made in the Initial Setup section (return to Factory Setting).

- Make sure a tape is not inserted in the VCR.



1 Turn VCR Power on.

2 Press and hold both **PLAY** and **CHANNEL ▲** on the VCR for more than 5 seconds.  
• The power shuts off.

3 Do "Initial Setup (Ready to Play)" on page 4.

### Note to CABLE system installer

This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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**Division of Matsushita Electric Corporation of America**  
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**Panasonic Sales Company ('PSC'),**  
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# Spanish Quick Use Guide/ Guía para rápida consulta

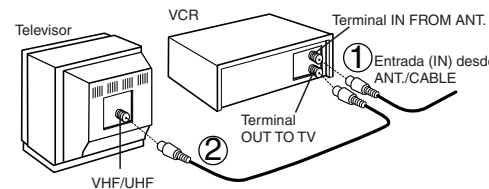
## CONEXIONES/CONFIGURACIÓN INICIAL (READY TO PLAY)

**Realice la conexión de la antena o TV por cable antes de enchufar el cable de CA.**  
La videograbadora iniciará automáticamente la fijación de los canales y del reloj al enchufar el cable de CA.

## CONEXIONES

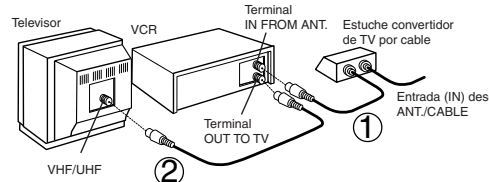
### Para Ant/Cable → VCR → TV

- 1 Conecte el cable de la antena al terminal IN FROM ANT del VCR.
- 2 Conecte el terminal OUT TO TV del VCR a la entrada de la antena VHF/UHF del TV con el cable RF incluido.



### Para Sistema Digital de Satellite (DSS)/ Convertidor de cable → VCR → TV

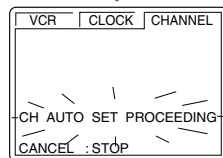
- 1 Conecte la salida de convertidor de cable al terminal IN FROM ANT.
- 2 Conecte el terminal OUT TO TV del VCR a la entrada de la antena VHF/UHF del TV con el cable RF incluido.



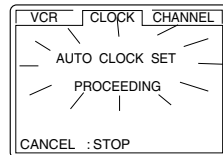
## CONFIGURACIÓN INICIAL

- 1 Encienda el TV y cambie al canal 3.
- 2 Enchufe el cable de CA.  
La videograbadora se encenderá e iniciará las fijaciones de los canales y del reloj.  
• Si no aparece la pantalla de abajo, compruebe la conexión del VCR-TV y si el canal del TV está a 3, intente cambiando al canal 4.  
• Para cambiar el canal de salida del VCR, consulte las instrucciones de "Canal de salida del VCR" en la página 12 de las operaciones avanzadas.

### Enchufe el cable de CA.



Cambie el idioma luego de la fijación inicial (para su ayuda vea la página 12 de las operaciones avanzadas.)



Si está usando un convertidor de TV por cable y en su area hay un canal de Public Broadcast Station (PBS), ajuste su convertidor al canal PBS de su area.  
Si está usando un receptor DSS, este debe estar apagado.

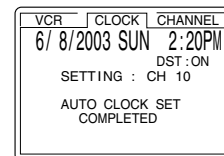
### Nota

- Los botones de funciones no funcionan durante la configuración inicial.
- Para retirar un cassette durante el ajuste automático, presione EJECT en el control remoto o STOP dos veces en el aparato. En este caso, los ajustes de los canales y la hora se deben hacer manualmente. Para los ajustes seleccione la pantalla MENU. (Vea la p.12 de Libro de Operaciones Avanzadas).
- Dependiendo de las condiciones, el ajuste automático puede durar más de 30 minutos. En ese caso, presione STOP para detener el ajuste automático y realice los ajustes manualmente en la pantalla MENU. (Vea la p.12 de Libro de Operaciones Avanzadas).

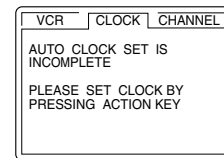
### PRECAUCIÓN

Al usar cables coaxiales RF del tipo "tuerca", apriételos solamente con los dedos. Un apriete excesivo puede dañar los terminales.

- 3 Las fijaciones se realizan automáticamente. Cuando termina las fijaciones, aparecerá la siguiente pantalla.



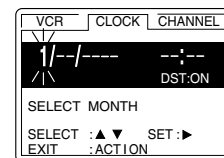
Si aparece en la pantalla "AUTO CLOCK SET IS INCOMPLETE (FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO)", Ajuste el reloj como se describe a continuación.



## AJUSTE MANUAL DEL RELOJ

Si la fijación ha sido incompleta.

- 1 Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú CLOCK.



- 2 Presione ▲ ▼ para seleccionar el mes y ► para ajustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (Hora de Verano).



- 3 Presione dos veces la tecla ACTION para poner el RELOJ en marcha y salir.

OPERACIONES BÁSICAS PARA LA REPRODUCCIÓN

- 1 Inserte una cassette.
- 2 Presione **PLAY** para reproducir el cassette.
- Si el cassette no tiene la lengüeta de prevención de grabación (p. 3), se inicia la reproducción automáticamente.

Detalles especiales durante la grabación

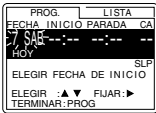
- Presione **FF** o **REW** para búsqueda de escenas hacia delante/ hacia atrás. Presione **PLAY** para liberar. Durante la búsqueda, cada vez que presione **FF** o **REW** se cambia la velocidad como sigue:  
[SLP] aprox. 21X ↔ aprox. 9X  
[LP] aprox. 9X ↔ aprox. 7X  
[SP] aprox. 7X ↔ aprox. 3X  
Si la imagen se interrumpe con la velocidad de 21x, 9x o 7x, cambie la velocidad a 9x, 7x o 3x.
  - Presione **PAUSE/SLOW** para imagen fija (Congelada). Presione **PLAY** para liberar.
  - Presione **PAUSE/SLOW** en el modo de Imagen fija para imágenes cuadro a cuadro. Presione **PLAY** para liberar.
  - Mantenga pulsado **PAUSE/SLOW** en el modo de imagen fija para imágenes en cámara lenta. Presione **PLAY** para liberar.
- 3 Presione **STOP** para detener el cassette.
- Presione **REW** o **FF** en el modo de parada para rebobinado/avance rápido del cassette.
  - Presione **EJECT** en el control remoto, o **STOP/EJECT** en el VCR para expulsar el cassette.

OPERACIONES BÁSICAS PARA LA GRABACIÓN

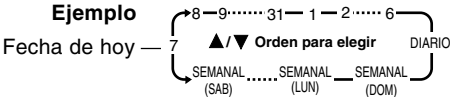
- 1 Inserte el cassette con lengüeta de protección de grabación (p. 3).
- La alimentación del VCR se activa. En la pantalla Multi Función se ilumina "VCR".
- 2 Presione **CH ▲▼**, o las teclas de números para seleccionar el canal.
- 3 Presione **SPEED** para seleccionar la velocidad de grabación (p. 3)
- SP = Reproducción estándar,
  - LP = Larga duración,
  - SLP = Superlarga duración.
- 4 Presione **REC** para comenzar a grabar.
- Para eliminar escenas indeseadas, presione **PAUSE/SLOW** para hacer una pausa, y al presionar nuevamente continua la grabación.
- 5 Presione **STOP** para detener la grabación.
- Grabación de un toque. Presione **REC** repetidamente para ajustar la duración de la grabación como sigue: como sigue: 30 min. → 1 hr → 1:30hr → 2:00 → 3:00 → 4:00 → Salida. La VCR se apagará automáticamente en un intervalo seleccionado de tiempo.
  - Ver un canal y grabar otro. Presione **VCR/TV**. (La indicación VCR se apagará en la "visualización de Multi-Función")  
→ Seleccione canales de TV (Mientras permanece grabando)
  - Seleccione canales con **VCR**. Presione **VCR/TV** (la indicación "VCR" se encenderá en la vidualización multi-función)  
→ Seleccione canales en su VCR.

PROGRAMACIÓN FÁCIL PARA LA GRABACIÓN CON TEMPORIZADOR

- 1 1) Presione **PROG**.
- 2) Presione ▼ para visualizar la pantalla de Programación.
- 2 1) Para ajustar la **FECHA de grabación**, presione ▲▼ para seleccionar: 1-31 = una vez, o **DIARIO** = a la misma hora de lunes a viernes, o **SEMANA** = a la misma hora cada semana y presione ► para ajustar.



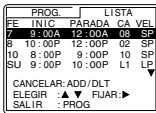
Orden para elegir



- 2) Para los ajustes siguientes, presione ▲▼ para seleccionar y presione ► para ajustar los tiempos de INICIO/PARADA, CANAL, o entrada de LINEA, y velocidad del cassette (SP, LP, SLP). Presione **PROG** para finalizar el programa.
- 3 Presione ▲▼ para seleccionar un número que no está usando para ingresar mas programas y presione ► para ajustar. Luego repita el paso 2.
- Presione nuevamente **PROG** para salir.
- 4 Presione **POWER off** para ajustar el temporizador. (Se ilumina "TIMER" en el panel delantero)

REVISIÓN, REEMPLAZO O BORRADO DE PROGRAMACIONES (no se puede efectuar durante la grabación)

- a 1) Presione **PROG**.
- 2) Presione ◀► para seleccionar la linea.
- b Presione ▲▼ para seleccionar programa deseado.
- c Para reemplazar programa...
- 1) Presione ► para desplegar menu.
- 2) Repita paso 2 (ver arriba) para introducir el nuevo programa.



Para cancelar programas... Presione **ADD/HLT**



- d Presione **PROG** Para terminar programacion.

PARA CANCELAR LA GRABACIÓN CON TEMPORIZADOR (la grabación está teniendo lugar)

Presione **POWER** y luego **STOP** dentro de los 10 segundos para cancelar la grabación con temporizador (el indicador **TIMER** se apagará en la Pantalla de Multi-Función)

ANTES DE AL SERVICIO SOPORTE TÉCNICO

Verifique los siguientes puntos una y otra vez si esta teniendo problemas con su VCR.  
(BO : Haga referencia en la instrucciones de funcionamiento [Operaciones Básicas])  
(AO : Haga referecncia el la instrucciones de funcionamiento [Operaciones Avanzadas])

ALIMENTACIÓN DE AC	CORRECCIÓN
La unidad no enciende....	<ul style="list-style-type: none"><li>Revise que el cordon de alimentación de AC este correctamente conectado a la toma de pared.</li><li>Presione el botón "POWER" para el encendido de la unidad.</li><li>Verifique que la fuente de alimentación está activada.</li></ul>
GRABACIÓN Y REPRODUCCIÓN (REC / PLAY)	CORRECCIÓN
No se pueden grabar programas de TV	<ul style="list-style-type: none"><li>Revise las conexiones entre VCR, antena externa o cable y TV.</li><li>Asegúrese de que la caja de Cable/DSS (si se utiliza) se deja encendido y está sintonizado al canal a grabar.</li><li>Verifique que su sistema de antenna (Cable o TV) estén correctamente seleccionados. Vea "Channels" (AO p. 12).</li><li>Asegúrese que la pestaña en el cassette de grabación esté intacta (BO p. 3).</li></ul>
No se puede efectuar grabación con temporizador...	<ul style="list-style-type: none"><li>Compruebe que el reloj ha sido ajustado a la hora y fecha actual.</li><li>Asegúrese de que la caja de Cable/DSS (si se utiliza) se deja encendido y está sintonizado al canal a grabar.</li><li>Ajuste las horas de comienzo y detección de grabación correctamente. (BO p. 6)</li><li>Asegúrese de que ha apagado el VCR antes de la grabación. (BO p. 6)</li><li>La grabación con temporizador quizás no pueda realizarse o continuarse si se produjera una interrupción de corriente antes o durante una grabación con temporizador, incluso después de restablecido el fluido eléctrico.</li></ul>
No hay imagen de reproducción, o la imagen de reproducción tiene ruidos o contiene rayas...	<ul style="list-style-type: none"><li>Seleccióne el canal 3 o 4 en el televisor, de modo que corresponda con el canal de salida del videograbador (3 o 4) (BO p. 4), o seleccione LINE.</li><li>Ajuste el selector VCR/TV a "VCR".</li><li>Ajuste el control TRACKING en una de las dos direcciones. (BO p. 3)</li><li>Pruebe a realizar la limpieza de cabezales. (BO p. 3)</li></ul>
En la reproducción de efectos especiales, la imagen puede contener algunos saltos verticales cuando se utiliza un televisor con Control de Bloqueo Vertical Automático...	<ul style="list-style-type: none"><li>Ponga el Control de Bloqueo Vertical del televisor en "MANUAL" y luego realice el ajuste.</li></ul>
No se puede controlar el VCR...	<ul style="list-style-type: none"><li>Asegúrese de que el aparato está encendido.</li><li>Revise las pilas del control remoto.</li><li>Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO p. 10)</li><li>Asegúrese de que no está funcionando una grabación con temporizador.</li></ul>
CONTROL REMOTO	CORRECCIÓN
NO funciona el control remoto...	<ul style="list-style-type: none"><li>Asegúrese de que el aparato está encendido.</li><li>Asegúrese de que el control remoto está en el modo de VCR.</li><li>Apunte el control remoto derectamente al sensor remoto del VCR. (BO p. 7)</li><li>Evite que ningún objeto interrumpa la señal del control remoto.</li><li>Revise las pilas del control remoto (BO p. 3)</li><li>Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO p. 10)</li><li>Si ei sensor remoto recibe directamente la lus del fluorescente o luz solar puede causar interferencia con la señal del control remoto.</li></ul>
Los botones "ACTION" y/o "PROG" no responden...	<ul style="list-style-type: none"><li>Verifique las conexiones entre VCR, cable o antena y TV.</li><li>Presione el botón VCR para el modo de "VCR". (AO p. 2)</li><li>Revise las baterías del control remoto. (BO p. 3)</li></ul>
Varios	CORRECCIÓN
No se pueden ver los programas en el televisor...	<ul style="list-style-type: none"><li>Asegúrese que la TV este encendida.</li><li>Asegúrese que la TV esté conectado a la salida de la VCR (VCR Out).</li><li>Verifique conexiones entre VCR,cable o antena y TV.</li><li>Ajuste el selector VCR/TV a "TV". (BO p. 5, AO p.10)</li><li>Asegúrese que la apropiada señal fue seleccionada.</li></ul>
No se puede introducir la cassette de video...	<ul style="list-style-type: none"><li>Inserte el cassette con el lado de la ventana hacia arriba y la pestaña de grabación frente a usted.</li><li>Verifique que no tenga ningún cassette dentro del aparato.</li></ul>
No se puede extraer la cassette de video...	<ul style="list-style-type: none"><li>Inserte o conecte completamente el cable de alimentación de AC a la toma de pared.</li></ul>
La cassette de vídeo es expulsada al dar comienzo a una grabación o al desactivar la alimentación para la grabación con teporizador...	<ul style="list-style-type: none"><li>Asegúrese que la pestaña de grabación del cassette este intacta. (BO p. 3)</li></ul>
En el modo de Detención, el motor (CILINDRO) sigue girando...	<ul style="list-style-type: none"><li>Para activar rápidamente el mecanismo de reproducción, el cilindro sigue rotando durannte 3 minutos. Esto disminuye el tiempo de respuesta desde la parada hasta la reroducción o hasta la el modo de búsqueda en rebobinado.</li></ul>

Si no puede resolver su problema, por favor comunicarse al Centro de llamadas del Cliente para asistencia del producto al 1-800-211-PANA(7262). Para localizar un centro de servicios autorizado, llame sin costo al 1-800-211-PANA(7262) o envíe un correo a : [consumerproducts@panasonic.com](mailto:consumerproducts@panasonic.com)

SEL. :▲▼ REGLER▶  
QUITTER :ACTION

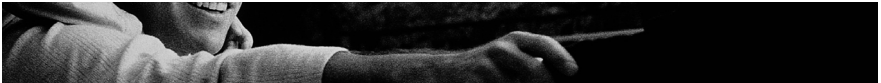
For French

CH AUTO SET PROCEEDING

3) Press ▲▼ and ◀▶  
to select and set  
the date, time, and

to in order to set  
manually.

Output



# Multi-Brand Control Feature

## Multi-Brand Control Setup

The Remote Control can be set to control some TV functions.

**1 Find your TV Brand Code Number from those shown below.**

**2 Set up for TV control,**  
→ hold down **TV** button,  
→ enter code with **NUMBER** keys.

**3 Confirm code entry,**  
→ **press POWER** to turn your TV on or off.  
• See table below for controllable functions in each mode.

- Notes
- Repeat setup after remote battery replacement.
  - Remote will not control every TV made by the manufacturer listed. If you get no response, your particular unit cannot be controlled. There are NO additional codes for the products listed. If your product is not listed, then the remote is not compatible with that product.

## Using Multi-Brand Control

After remote is set up, you can select VCR or TV for the desired function.

**Press VCR or TV** on the remote.  
(Table below shows available unit buttons for each mode.)

Unit Mode \	VCR	TV
VCR	All	VOL UP/DOWN
TV	VCR/TV, PLAY, STOP, EJECT, SAP/Hi-Fi, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, CM/ZERO, RESET COUNTER, TAPE POSITION	POWER, INPUT, ENTER, NUMBER keys, CH UP/DOWN, VOL UP/DOWN

- Notes
- Not all functions listed may be controllable.
  - In TV mode, it may be necessary to press ENTER after pressing NUMBER keys for channel selection.

TV Brand Code Numbers					
Panasonic .....	01, 02	Sylvania .....	05	JVC .....	11
Quasar .....	01, 02	Sharp .....	06, 07	Hitachi .....	12
RCA .....	03	Sony .....	08	Mitsubishi .....	07, 13
GE .....	03	Toshiba .....	09	Samsung .....	14
Zenith .....	04	Sanyo .....	10	Gold Star .....	15, 16, 17
Magnavox .....	05	Fisher .....	10		

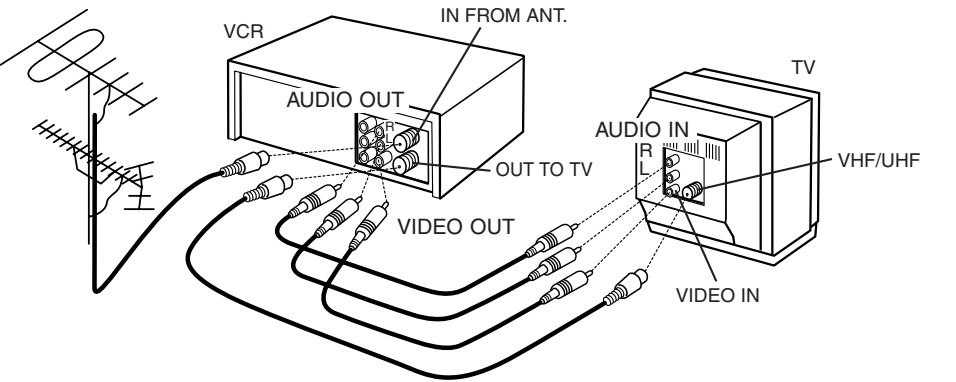
## Important Notes

- Some manufacturers use several codes for one brand. If the first code entered fails, try the next one listed.
- Some TV brands require you to turn on the power manually.

# Advanced Connections

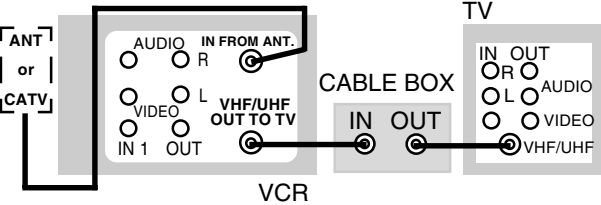
## Audio/Video connection

If your TV has AUDIO IN and VIDEO IN terminals, you can connect your VCR to them to receive higher quality picture and sound.



- 1 Connect the VCR's VIDEO OUT jack to the TV's VIDEO IN jack.
- 2 Connect VCR's L/R AUDIO OUT jacks to the TV's L/R AUDIO IN jacks.
- 3 Set the VIDEO/TV selector of your TV (Monitor/Receiver) to "VIDEO."

## With a Cable Box (VCR → Cable Box)



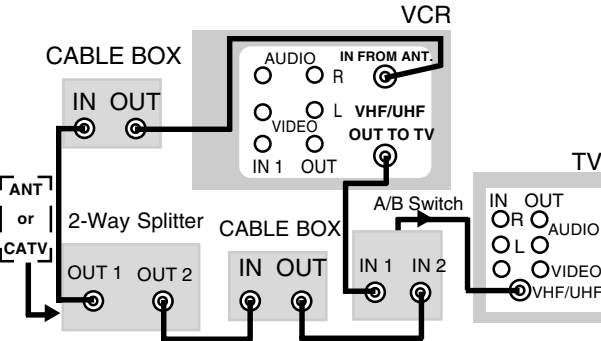
### You Can

- view any (including scrambled) channel.
- use VCR Remote Control to select channels without using Multi-brand control feature.

### You Cannot

- record scrambled channels.

## Connect With Two Cable Boxes



### You Can

- record and view both scrambled and unscrambled channels if additional equipment is added. This connection requires: two converter boxes, an A/B switch, and a 2-way splitter.

### You Cannot

- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the cable box.

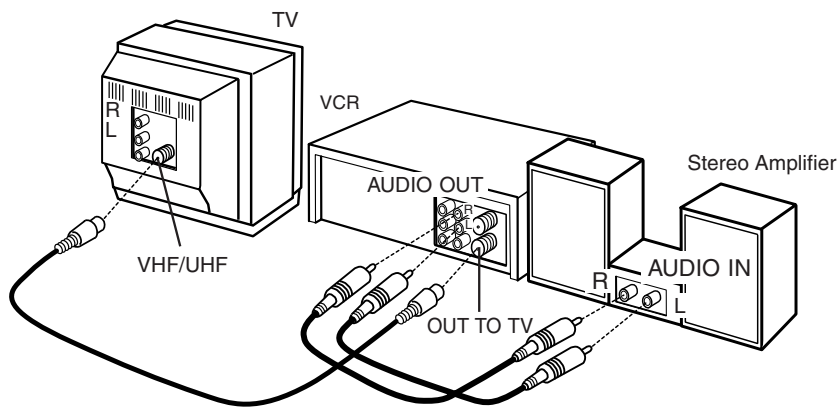


# MTS Broadcast

## Connection

Make the Audio/Video Connection as shown on page 3.

- You can use a TV connected to Stereo amp and speakers instead of a Stereo TV.



## Receivable Broadcast Types

The following are possible audio broadcast types and on-screen displays.

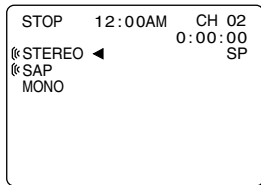
The signal being received is indicated with an “Ⓢ” mark while the selected audio mode is indicated with an arrow.

To display the broadcast signal being received,

→ **press DISPLAY\***.

### MTS Stereo and SAP broadcast

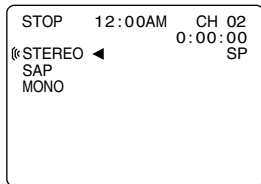
Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously. Select STEREO or SAP audio mode.



### MTS Stereo broadcast

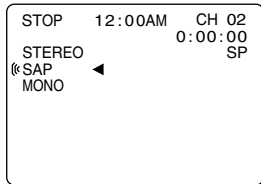
Multi-channel Television Sound Stereo broadcast. Select STEREO audio mode.

- If stereo broadcast is weak and display flickers, select MONO audio mode for possible better results.



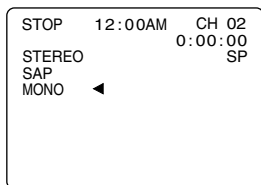
### SAP broadcast

Secondary Audio Program (sub language) broadcast. Select SAP audio mode for the sub language.



### MONO broadcast

Normal monaural sound broadcast.

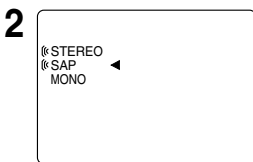


Equipped with **dbx**®-TV Noise Reduction for true MTS reproduction. **dbx**®-TV Noise Reduction is required for good stereo separation and audio fidelity. **dbx**® is a registered trademark, and is licensed by **dbx**® Technology Licensing.

# VHS Hi-Fi Stereo System

## Audio Mode for Recording

- 1 **Press SAP/ Hi-Fi** to display audio mode.  
(Display disappears after 5 seconds.)



- Arrow indicates selection.

**Press SAP/ Hi-Fi repeatedly** to select desired mode.

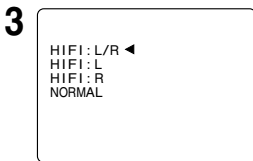
- Refer to “Receivable Broadcast Types” on page 4.

- 3 **Make a recording.**  
See p. 5 of “Basic Operations” Instruction book.

## Audio Mode for Playback

- 1 **Start playback.**  
See p. 5 of “Basic Operations” Instruction book.

- 2 **Press SAP/ Hi-Fi** to display audio mode.  
(Display disappears after 5 seconds.)



- Arrow indicates selection.

**Press SAP/ Hi-Fi repeatedly** to select desired mode.

- Select “HIFI(L/R)” or “HIFI(L)” or “HIFI(R)” to listen to stereo recordings in stereo sound. Select “NORMAL” for monaural sound.

## Notes

- Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback in monaural sound.
- To listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV or an external stereo amp and speakers. (See page 4.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

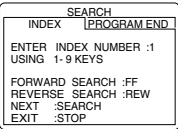
**\*Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

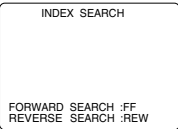
# Tape Operation

## Search System

For each recording, an invisible index mark is placed on the tape. A program index and information are also included for timer recordings. These marks are used to access or scan recordings.

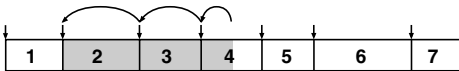
### Index Search

- 1**  **Press SEARCH\*** to display SEARCH in Stop or Play mode, and then **press NUMBER** keys to select recording number.
- To calculate number, see below.
- Press FF or REW** to start search.

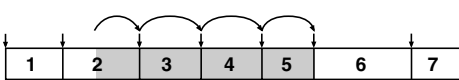
- 2**  Play begins at search end. To search forward or back 1 index, **press FF or REW** while screen left is displayed (10 sec.).
- To cancel, **press PLAY** or **STOP**.

### To Calculate Index Number

**Example 1:**  
To go to rec. 2 from rec. 4, enter 3 and press REW.



**Example 2:**  
To go to rec. 6 from rec. 2, enter 4 and press FF.



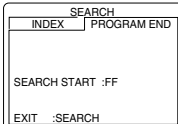
NOTE: ↓ indicates start points of each recording.

### Note

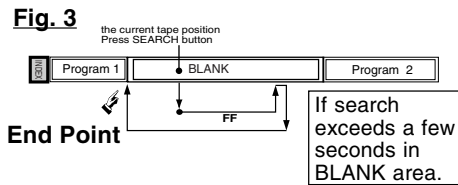
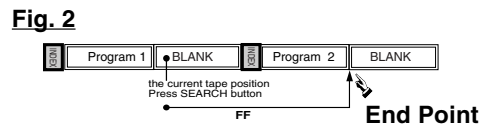
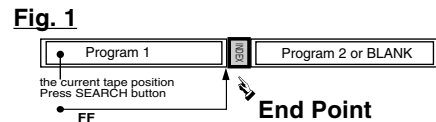
- If Index Search is started very close to an index mark, that index mark may not be counted in the search.

### Program End Search

Locates end point of recording for continuity.

- 1** **Press SEARCH** twice to display SEARCH in Stop or Play mode.
- 2**  **Press FF** to start PROGRAM END SEARCH.
- To cancel, **press PLAY** or **STOP**.

Examples of Program End Search.



**Upon locating end point,**

- search continues 7 sec. past end point,
- tape rewinds to 10 sec. before end point,
- tape plays to end point and stops.

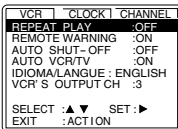
### Notes

- If Program End Search is started very close to an index mark, that mark may be skipped over.
- To cancel, press PLAY or STOP.

# Tape Operation

### Repeat Play

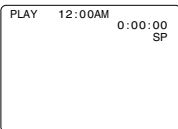
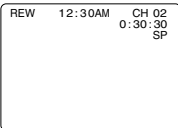

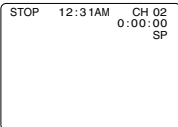
Set to playback a recording over and over.

- 1** **Press ACTION** to display menu.
- 2**  **Press ▲▼** to select REPEAT PLAY and **press ►** to set ON or OFF.
- ON : Play repeats at tape end or if unrecorded portion over 30 sec. is detected.

- 3** **Press ACTION** to return to normal screen.

### Zero Search

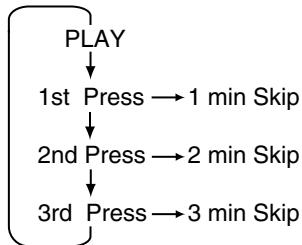
To quickly return to a specified tape location.

- 1** **Press DISPLAY** during play to display Counter.
- 2**  **Press RESET COUNTER** at desired position to reset to "0:00:00".
- 3** Continue to record, playback, etc.
- 4** **Press STOP.**
- 5**  **Press CM/ZERO** in Stop mode to start ZERO SEARCH.
- Unit will go into FF or REW mode and stop at the last point the Counter was set to 0:00:00.
- 
- 

### Commercial Skip

VCR fast forwards (skips) over 1~3 minutes of recorded tape.

- 1** **Press CM/ZERO** in Play mode.
- Press CM/ZERO repeatedly to change skip time as shown below.



- No indication appears.

**\*Important:** If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

VCR cannot be controlled...

- make sure VCR power is on.
- Check Remote batteries.
- Make sure VCR LOCK is set to off. (AO p. 10)
- Make sure Timer Record is not in progress.

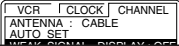
Playing (Source) VCR

Recording (Editing) VCR

OFF → 2 Hours → 4 Hours → 6 Hours

1 Press **ACTION** to display menu.

2



Press ◀▶ to select and display CHANNEL.

request

PRESSING ACTION KEY

Recording and the Clock is not set...

Basic Operations  
book